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APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/789,103 02/27/2004		02/27/2004	Qingguo Wu	NOVLP094/NVLS-002919 7687	
22434	7590	06/14/2006	EXAM		INER
BEYER W	EAVER &	& THOMAS LLP	CHEN, BRET P		
P.O. BOX 7	0250				
OAKLAND, CA 94612-0250				ART UNIT	PAPER NUMBER
				1762	

DATE MAILED: 06/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Applicati n N .	Applicant(s)					
	10/789,103	WU ET AL.					
Office Action Summary	Examiner	Art Unit					
	B. Chen	1762					
The MAILING DATE f this communication ap Peri df r Reply	pears on the cover sheet with the o	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING [- Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by stature Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tire will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 31 I	March 2006.						
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,	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disp sition of Claims							
4)⊠ Claim(s) <u>1-33,45 and 47-51</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-33,45 and 47-51</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin	er.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correct	ction is required if the drawing(s) is ob	ejected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form PTO-152.					
Pri rity under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
 Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 	Paper No(s)/Mail D	ate Patent Application (PTO-152)					
Paper No(s)/Mail Date	6) Other:	There is a second					

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DETAILED ACTION

Claims 1-33, 45, 47-51 are pending in this application. Amended claim 45 and canceled claims 34-44, 46 are noted.

The amendment dated 3/31/06 has been entered and carefully considered. The examiner appreciates the amendments to the specification and claims. In view of said amendment, the objection to the specification has been withdrawn.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-33, 45, 47-51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rocha-Alvarez et al. (6,797,643) for the reasons listed in the previous office action.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., In re Berg, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); In re Goodman, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); In re Longi, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-33, 45-51 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-27 of copending Application No. 10/800409 for the reasons listed in the previous office action.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claims 1-33, 45-51 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-31 of copending Application No. 10/820525 for the reasons listed in the previous office action.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Response to Arguments

Applicant's arguments filed 3/31/06 have been fully considered but they are not persuasive.

Applicant argues that Rocha-Alvarez does not teach a CDO precursor having a carbon-carbon triple bond nor does it teach incorporating those bonds into the film (p.9).

The examiner agrees in part. While the examiner conceded that Rocha-Alvarez does not specifically teach a CDO precursor having carbon-carbon triple bond, the prior art reference clearly teaches that a method of depositing a carbon-doped silicon oxide film on a substrate and discloses using a gas mixture includes one or more cyclic organosilicon compounds, one or more

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aliphatic compounds, wherein the aliphatic compounds may also include aliphatic hydrocarbon compounds having between one and about twenty adjacent carbon atoms and can be bonded using triple bonds (claim 16, col.2 lines 5-19, and col.3 lines 5-67). One skilled in the art would realize that precursors having carbon-carbon triple bonds could be utilized in the process of Roche-Alvarez with the expectation of obtaining similar results.

With respect to incorporating the carbon-carbon triple bonds into the film, it is noted that the reference remains silent as to the bonding of the deposited film. However, there is nothing to suggest that a carbon-carbon triple bond would not be included. The applicant's suggestion that there is no preservation of the bonds appears to be mere speculation in the absence of factual evidence to the contrary.

Applicant next argues that Rocha-Alvarez does not teach or suggest an average angle less than 145 degrees nor the appropriate wavenumber which presence avoids the consumption of reactive carbon bonds (p.10).

The examiner agrees. It is first noted that claim 45 does not include any limitation about the presence of carbon-carbon triple bond. Hence, the applicant's arguments are not commensurate in scope with the instant claims as presently written. Secondly, the angle and wavenumber are inherent to the Si-O-Si backbone, a limitation presently taught in Rocha-Alvarez in column 3. If the applicant can provide factual evidence that the angle and wave number are not inherent to this structure, the examiner will consider withdrawing the rejection. In addition, if the applicant were to incorporate the limitation of claim 48, the examiner would consider withdrawing the art rejection.

Applicant next argues that the dependent claims fail to teach the specific precursors (pp.10-11).

The examiner agrees. However, this issue has been addressed above.

Applicant's arguments have been considered but are not deemed persuasive.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bc

6/12/06

BRET CHEN
PRIMARY EXAMINER